

WHAT IS CLAIMED IS:

1. A job distributed processing method in that a plurality of computers having the respective preselected resource amounts are connected through a network to each other, and an entered
5 job to any of said plural computers are distributed so as to execute the entered job, said job distribution processing method comprising the steps of:

storing a job execution history as to a plurality of jobs which were executed in the past in each of said computers;

10 referring to said job execution history to select a computer such that when an execution-subject job is executed, said execution-subject job does not exceed the resource amount stored by said computer; and

15 distributing said execution-subject job to said selected computer.

2. A job distributed processing method as claimed in claim 1 further comprising the steps of:

20 predicting a resource amount required when said execution-subject job is executed, by selecting a job from said job execution history, and said job is resembled to said execution-subject job and was executed in the past; and

25 managing both a total resource amount possessed by each of said plural computers and also used resource amounts used by the respective computers in the format of a server resource management table;

executing a job selecting method to select a computer such that a summed resource amount does not exceed the total

resource amount of said computer, and further, a load thereof becomes minimum, said summed resource amount being calculated between the predicted resource amount of the execution-subject job and the used resource amount obtained with reference to
5 said server resource management table; and
distributing said job to said selected computer.

3. A job distributed processing method as claimed in claim 2 wherein said job selecting method selects the job which
10 was executed in the past and is resembled to said
execution-subject job, while referring to the respective items of a comment in which a name of a job, a name of a job execution request person, a job execution request day, and a feature of a job are described.

15 4. A job distributed processing method as claimed in claim 1, wherein when there is no job which was executed in the past and is resembled to said execution-subject job, a selection is made of such a computer that a ratio of the used
20 resource amount with respect to the total resource amount saved by said computer becomes minimum, and also a load thereof becomes minimum, and the entered job is distributed to said selected computer.

25 5 A job distributed processing method as claimed in claim 1 wherein capabilities of the respective computers are normalized while a capability of a specific computer is used as a reference;

actual use data normalized from said job execution history is totaled/processed based upon the normalized computer capability; and

5 a charging process operation is carried out with respect to each of users of the respective computers based on said actual use data.

6. A job distributed processing method as claimed in claim 5 wherein the charging process operation is carried out
10 with respect to the user of each of the respective computers based upon a total expense required when each of said computers is conducted, a total expense required when each of said computers is operated, CPU time used by each of said jobs, and an actual memory amount used by each of said jobs.

15 7. A recording medium which stores a program capable of executing both said totalizing process operation of the actual use data and said charging process operation with respect to the user as recited in claim 5.

20 8. A recording medium as claimed in claim 7, which further stores a program capable of executing said charging process operation as recited in claim 6.

25 9. A distributed processing system comprising a job queuing server which mutually connects a plurality of computers having preselected resource amounts to each other via a network, and also distributes an entered job to any of said plural computers

so as to execute the entered job by the job-distributed computer,
wherein:

said job queuing server saves a job execution history
as to a plurality of jobs which were executed in the past;

5 and

while referring to said job execution history, said job
queuing server selects such a computer that when an
execution-subject job is executed, said execution-subject job
does not exceed the resource amount saved by said computer,
10 and said job queuing server distributes said execution-subject
job to said selected computer.

10. A distributed processing system as claimed in claim
9, wherein said job queuing server comprise:

15 history saving means for saving thereinto the respective
job execution histories of said plurality of jobs which were
executed in the past;

history referring means operated in such a manner that
while a job selection method is executed by which a job is
20 selected from said job execution history, and said job is
resembled to said execution-subject job and was executed in
the past, a resource amount required when said execution-subject
job is executed in predicted;

resource managing means operated in such a manner that
25 while both a total resource amount saved by each of said plural
computers and also used resource amounts used by the respective
computers are managed in the format of a server resource
management table, a list is made of such a computer that a

summed resource amount does not exceed the total resource amount saved by said computer, and further, a load thereof becomes minimum, said summed resource amount being calculated between the predicted resource amount of the execution-subject job and the used resource amount obtained with reference to said server resource management table; and

distributing means for selecting such a computer whose load becomes minimum from said list and for distributing the entered job to the selected computer.

11. A distributed processing system as claimed in claim 10, wherein said job selecting method selects the job which was executed in the past and is resembled to said execution-subject job, while referring to the respective items of a comment in which a name of a job, a name of a job execution request person, a job execution request day, and a feature of a job are described.

12. A distributed processing system as claimed in claim 9, wherein when there is no job which was executed in the past and is resembled to said execution-subject job, said job distributing means selects such a computer that a ratio of the used resource amount with respect to the total resource amount saved by said computer becomes minimum, and also a load thereof becomes minimum, and also distributes the entered job to said selected computer.

13. A distributed processing system as claimed in claim

9, further comprising:

charge processing means operated in such a manner that capabilities of the respective computers are normalized while a capability of a specific computer is used as a reference; actual use data normalized from said job execution history is totalized/processed based upon the normalized computer capability; and a charging process operation is carried out with respect to each of users of the respective computers based on said actual use data.

14. A distributed processing system as claimed in claim 13, wherein said charge processing means further executes such a charging process operation with respect to the user of each of the respective computers based upon a total expense required when each of said computers is conducted, a total expense required when each of said computers is operated, CPU time used by each of said jobs, and an actual memory amount used by each of said jobs.